

REMARKS/ARGUMENTS

Claims 1-4 were pending in the present application. The present response amends claim 4 and adds new claims 5-12, leaving pending in the present application claims 5-12. Reconsideration of the pending claims and consideration of the newly presented claims is respectfully requested.

I. Allowable Subject Matter

Claim 4 is allowable over the prior art, as noted by the Examiner in the Office Action of April 11, 2002, but for being dependent upon a rejected base claim. Claim 4 has been re-written in independent form containing all limitations of the base claim and any intervening claims. Applicants respectfully submit that claim 4 is in condition for allowance.

II. Rejection under 35 U.S.C. §102

Claims 1 and 2 are rejected under 35 U.S.C. §102(b) as being anticipated by *Nayebi* (US 5,689,309).

Applicants' claim 1 recites "a differential pair receiving as input signals a video signal and said bias voltage, said differential pair providing a first output video signal corresponding to said video signal, and a second output signal amplifying said video signal." Such a limitation is not disclosed in *Nayebi*. As noted by the Examiner, the "mixer circuit (80)" of *Nayebi* includes first and second differential pairs, Q10 with Q20 and Q30 with Q40. Each differential pair accepts an input video signal, namely an "analog input composite video signal" for Q10/Q20 and a "digital input composite video signal" for Q30/Q40 (col. 6, lines 21-67; Fig. 6). Each differential pair does not, however, receive as input a bias voltage as recited in Applicants' claim 1, but receives a respective "content signal" that is generated by the "mixer control circuit (82)," with each control signal representing the varying percentage of each input "to be included within the output composite video signal" (col. 7, line 1-col. 8, line 6). The "mixer control circuit (82)" requires "three signal lines M0, M1 and α " to "specify the content of the output composite video signal" and the "ratio" of the analog and digital signals (col. 4, lines 36-48). The differential pairs of *Nayebi* therefore do not receive a bias signal, as required in Applicants' claim 1, but each receive a variable control signal. *Nayebi* therefore also does not have the advantage of a single varying input, as does the invention of Applicants' claim 1.

Further, neither differential pair of *Nayebi* provides “a first output signal” and “a second output signal” as required in Applicants’ claim 1. The differential pairs of *Nayebi* each generate a single “differential output signal” (col. 6, lines 21-67, Fig. 6). Any amplification due to “output circuit driver 66” acts on only the single output signal, as two separate signals are not generated by either differential pair (col. 7, lines 23-32, Fig. 6). As *Nayebi* does not disclose each element of Applicants’ claim 1, *Nayebi* cannot anticipate Applicants’ claim 1. As claim 2 depends from claim 1, neither can claim 2 be anticipated. Applicants therefore respectfully request that the rejection with respect to claims 1 and 2 be withdrawn.

III. Rejection under 35 U.S.C. §103

Claim 3 is rejected under 35 U.S.C. §103(a) as being obvious over *Nayebi*. Claim 3 depends from claim 1. As discussed above, *Nayebi* does not disclose all limitations of Applicants’ claim 1. Further, *Nayebi* does not teach or suggest those limitations not disclosed by *Nayebi*. *Nayebi* therefore cannot render claim 1 obvious. As claim 3 depends from claim 1, neither can claim 3 be rendered obvious by *Nayebi*. Applicants therefore respectfully request that the rejection with respect to claim 3 be withdrawn.

IV. Amendments to the Claims

The amendments to the claims are made for purposes of clarity, and unless otherwise noted are not intended to alter the scope of the claims or limit any equivalents thereof. The amendments are fully supported by, and do not add new matter to, the specification.

V. Amendments to the Specification

The amendments to the specification are made for purposes of clarity and accuracy. For example, the changes to the paragraph beginning at page 1, line 6, are made to update the status of related applications. The amendments are fully supported elsewhere in the specification, and do not add new matter.

VI. Newly Presented Claims

The newly presented claims are added for purposes of clarity. The newly presented claims are fully supported by the specification and do not add new matter to the specification. Consideration of the newly presented claims is respectfully requested.

VI. Conclusion

In view of the above, it is respectfully submitted that the application is now in condition for allowance. Reconsideration of the pending claims, consideration of the newly presented claims, and a notice of allowance is respectfully requested.

The Commissioner is hereby authorized to charge any deficiency in the fees filed, asserted to be filed or which should have been filed herewith (or with any paper hereafter filed in this application by this firm) to our Deposit Account No. 50-1703, under Order No. NSC1-H0700. **A duplicate copy of this sheet is enclosed.**

Respectfully submitted,

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